

PHOTOCHROMIC LAMINATE

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Abstract

PURPOSE: To improve a light resistance characteristic and to prevent the deterioration by long-term photoirradiation by providing a photochromic layer and a UV absorption layer contg. a UV absorbent and high-polymer material.

CONSTITUTION: The photochromic laminate has at least two sheets of transparent substrates 1,5, the photochromic layer 2 which is held between two sheets of the transparent bases and contains a spirooxazine compd., nitroxy free radicals and the high-polymer material as essential components, and the UV absorption layer 4 having the UV absorbent to shut off the incident UV light on the photochromic layer to some extent and the high-polymer material. In addition, 30 to 90% of light of 350nm of the incident light on the photochromic layer can be shut off by the UV absorption layer 4. The UV absorbent has absorption at $\leq 400\text{nm}$ wavelength. A transparent intermediate film 3 essentially consisting of a thermoplastic polymer and plasticizer is preferably provided as the base for the photochromic layer 2 and the UV absorption layer 4.

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